

Chalk Point

MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Suite 605 • Baltimore, Maryland 21230-1719

410-537-3375 • 800-633-6101 x3375 • www.mde.state.md.us

Land Management Administration • Solid Waste Program

**Coal Combustion Byproducts (CCB)
Annual Generator Tonnage Report**

Instructions for Calendar Year 2010

The following is general information relating to the requirement for reporting quantities of coal combustion byproducts that were managed in the State of Maryland during calendar year 2009. Please answer the questions on the form provided, attaching additional information and any requested supplemental information to the back of the form.

I. Background. This requirement that generators of coal combustion byproducts (CCBs) submit an annual report was instituted in the Code of Maryland Regulations COMAR 26.04.10.08, that was promulgated effective December 1, 2008. The regulation requires that any non-residential generator of CCBs submit a report to the Department by March 1 of each year describing the manner in which CCBs generated within the State were managed during the preceding calendar year. Additional information and specific instructions follow. For more detailed information, please refer to COMAR 26.04.10.08.

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FEB 25 2011

II. General Information and Applicability.

SOLID WASTE
OPERATIONS DIVISION

A. Definitions. Coal combustion byproducts are defined in COMAR 26.04.10.02B as:

"(3) Coal Combustion Byproducts. (a) "Coal combustion byproducts" means the residue generated by or resulting from the burning of coal.

(b) "Coal combustion byproducts" includes fly ash, bottom ash, boiler slag, pozzolan, and other solid residuals removed by air pollution control devices from the flue gas and combustion chambers of coal burning furnaces and boilers, including flue gas desulfurization sludge and other solid residuals recovered from flue gas by wet or dry methods. "

A generator of CCBs is defined in COMAR 26.04.10.02B as:

"(9) Generator.

(a) "Generator" means a person whose operations, activities, processes, or actions create coal combustion byproducts.

(b) "Generator" does not include a person who only generates coal combustion byproducts by burning coal at a private residence."

B. Applicability. If you or your company meets the definition of a generator of CCBs as defined above, you must provide the information as required below. For the purposes of this report, "you" shall hereinafter refer to the generator defined above. Please note that COMAR

Facility Name: Chalk Point Generating Station **CCB Tonnage Report – 2010**

26.04.10.08 requires generators of CCBs to submit an annual report to the Department concerning the disposition of the CCBs that they generated the previous year.

III. Required Information. The following information must be provided to the Department by March 1, 2010:

A. Contact information:

Facility Name: Chalk Point Generating Station

Name of Permit Holder: GenOn Chalk Point, LLC

Facility Address: 25100 Eagle Harbor Road
Street

Facility Address: Aquasco Maryland 20608
City State Zip

County: Prince George's County

Contact Information (Person filing report or Environmental Manager)

Facility Telephone No.: 301-843-4100 Facility Fax No.: 301-843-4281

Contact Name: Elizabeth A. Spitzer

Contact Title: Environmental Analyst

Contact Address: 8301 Professional Place, Suite 230
Street

Contact Address: Landover MD. 20785
City State Zip

Contact Email: elizabeth.spitzer@genon.com

Contact Telephone No.: 301-955-9051 Contact Fax No.: 301-955-9015

For questions on how to complete this form, please call Mr. Edward Dexter, Administrator, Solid Waste Program at 410-537-3318.

B. A description of the process that generates the coal combustion byproducts, including the type of coal or other raw material that generates the coal combustion byproducts. If the space provided is insufficient, please attach additional pages:

See Attachment A.

C. The annual volume of coal combustion byproducts generated during the last calendar year, including an identification of the different types of coal combustion byproducts generated and the volume of each type generated. If the space provided is insufficient, please attach additional pages in a similar format:

Table I: Volume of CCBs Generated for Previous Calendar Year:

Reporting Year	Volume of CCB Type: <u>Flyash</u>	Volume of CCB Type: <u>Bottom Ash</u>	Volume of CCB Type: <u>On-Spec Gypsum</u>	Volume of CCB Type: <u>Off-Spec Gypsum</u>	Volume of CCB Type: <u>WWTP Fines</u>
2010	94,891 tons	11,608 tons	118,700 tons	2018.0 tons	1231.9 tons

Additional notes:

CCBs reported in dry short tons.

*WWTP Fines represent fines from the Flue Gas Desulfurization's Waste Water Treatment.

D. Descriptions of any modeling or risk assessments, or both, conducted relating to the coal combustion byproducts or their use that were performed by you or your company during the reporting year. Please attach this information to the report. N/A

E. Copies of all laboratory reports of all chemical characterizations of the coal combustion byproducts. Please attach this information to the report. See Attachment B.

F. A description of how you disposed of or used your coal combustion byproducts in the last calendar year, identifying:

(a) The types and volume of coal combustion byproducts disposed of or used (if different than described in Paragraph C above), the location of disposal, mine reclamation and use sites, and the type and volume of coal combustion byproducts disposed of or used at each site:

Of the 94,891 tons of flyash generated, 1305 tons were sold to SEFA, headquartered in Columbia, SC and 93,586 tons were disposed of at the Brandywine Ash Site, located in Brandywine, MD.

All of the 11,608 tons of bottom ash generated in 2010 was sent to the Brandywine Ash Site located in Brandywine, MD for disposal.

On-Spec Gypsum generated was 118,700 tons, of which 111,169.0 tons were transported by barge to La Farge, located in Buchanan, NY, and 7531.0 tons are being stored on site.

Off-spec Gypsum generated in 2010 was 2018.0 tons, of which 363.2 tons were sold to Synmat, headquartered in Louisville, KY., 1573.1 tons were disposed of at Waste Management's Amelia Landfill located in Jetersville, VA, and 81.7 tons are being stored on site.

WWTP Fines produced in 2010 was 1231.9 tons, all of which was disposed of at Waste Management's Amelia Landfill in Jetersville, VA.

and (b) The different uses by type and volume of coal combustion byproducts:

Flyash:

Volume: 1305 tons sold

Use: 469 tons Supplementary cementitious material for concrete and concrete products.
836 tons Portland cement,

On-Spec Gypsum:

Volume: 111,169.0 tons

Use: Wallboard.

Off- Spec Gypsum:

Uses: Agricultural use.

If the space provided is insufficient, please attach additional pages in a similar format. (Please note that in subsequent years you need only provide the information in Section F for the last calendar year).

G. A description of how you intend to dispose of or use coal combustion byproducts in the next 5 years, identifying:

(a) The types and volume of coal combustion byproducts intended to be disposed of or used, the location of intended disposal, mine reclamation and use sites, and the type and volume of coal combustion byproducts intended to be disposed of or used at each site:

Flyash: Approximately 95,000 tons to be generated, with about 1300 tons to be sold to SEFA, headquartered in Columbia, SC., and 94,000 tons to be sent for disposal to the Brandywine Ash Site located in Brandywine, MD..

Bottom Ash: Anticipate 12,000 tons to be generated, all of which is expected to be disposed of at the Brandywine Ash Site.

On-Spec Gypsum: Anticipate 120,000 tons to be produced, with 112,000 to be transported via barge to La Farge, in Buchanan, New York, and 8,000 tons stored on site.

Off-Spec Gypsum: Approximate 2000 tons to be produced with about 400 tons to be sold to Synmat, headquartered in Louisville, KY., 100 tons stored on site and 1500 tons transported for disposal to Waste Management's Amelia Landfill in Jetersville, VA.

WWTP Fines: Approximately 1200 tons to be generated, all of which to be transported to Waste Management's Amelia Landfill for disposal.

and (b) The different intended uses by type and volume of coal combustion byproducts.

Flyash:

Volume: 1300 tons.

Use: 840 tons Portland cement.

460 tons Supplementary cementitious material for concrete and concrete products.

On-Spec Gypsum:

Volume: 120,000 tons.

Use: Wallboard..

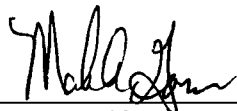
Off-Spec Gypsum:

Volume: 400 tons.

Use: Agricultural use..

If the space provided is insufficient, please attach additional pages in a similar format.

IV. Signature and Certification. An authorized official of the generator must sign the annual report, and certify as to the accuracy and completeness of the information contained in the annual report: This is to certify that, to the best of my knowledge, the information contained in this report and any attached documents are true, accurate, and complete.

 Signature	<u>Mark Gouveia, VP-PJM South Operations</u> 202-580-5611 Name, Title, & Telephone No. (Print or Type) mark.gouveia@genon.com Your Email Address	2/17/14 Date
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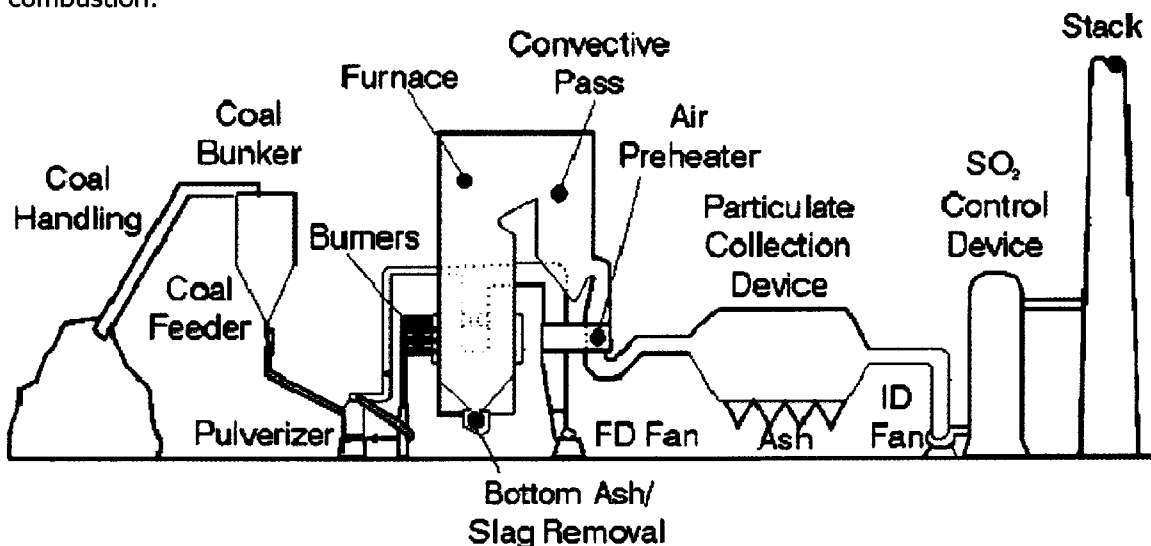
Attachment A

Chalk Point Generating Station
25100 Eagle Harbor Road,
Aquasco, Prince George's County, MD. 20608
301-843-4100

The Chalk Point Generating Station is located on the Patuxent River at Swanson's Creek in Prince George's County, MD. The facility is engaged in the generation of electrical energy for sale. The primary SIC code is 4911. There are two coal burning, opposite wall fired units each with a superheater, double reheat and economizer and each rated at 365 MWs (base loaded). The primary fuel for these boilers is bituminous coal. Pollution control devices on Unit 1 include low NOx burners with Separated Over-Fired Air (SOFA), and Selective Catalytic Reduction (SCR) for control of oxides of nitrogen (NOx); and electrostatic precipitators (ESP) for the control of particulate matter. Pollution control devices on Unit 2 include low NOx burners with Separated Over-Fired Air (SOFA), and Selective Auto-Catalytic Reduction (SACR) for control of oxides of nitrogen (NOx); and electrostatic precipitators (ESP) for the control of particulate matter. A Wet Scrubber (FGD) was installed and went in service on both units in late 2009. Units 1 & 2 exhausts through the scrubber stack or, when the FGD is not in service, through a common single stack.

Coal is currently delivered by rail. The rail cars are emptied using a rotary dumper then transferred by conveyor and dravo to either a storage pile or is fed directly to the units' bunker.

The illustration below shows a simple schematic diagram for a typical pulverized coal combustion system. The coal is prepared by grinding to a very fine consistency for combustion.



Attachment A

The CCBs currently produced and used are a result of the combustion of pulverized coal.

Ash is formed in the boiler while coal combusts. In general, pulverized coal combustion results in approximately 10% ash, of which 65%–85% is fly ash, and the remainder is coarser bottom ash. Bottom ash is a coarse material and falls to the bottom of the boiler. Fly ash is finer than bottom ash and is carried along the combustion process with flue gas. Particulate collection devices remove fly ash from the flue gas and the collected ash is transferred to one of two ash silos. Flyash that is not marketed is sent to the Brandywine Ash Site, located in Prince George's County, MD. The bottom ash is conveyed out of the bottom of the boiler via a wet sluice system to hydrobins, where the water is then decanted and the bottom ash sent to the Brandywine Ash Site, where it is often used in the construction of flyash disposal cells.

Gypsum is a byproduct of SO₂ removal by the Flue Gas Desulfurization (FGD) system, commonly known as a scrubber. Chalk Point uses wet scrubbers for SO₂ removal. Wet scrubbing uses a slurry of limestone alkaline sorbent to remove SO₂, - as well as some mercury contaminants - from the air stream. The byproduct - gypsum - is conveyed to a storage dome temporarily where it is delivered to the Morgantown Station and then sent to Buchanan, New York to be made into wallboard. Gypsum that doesn't meet the specifications for wallboard production is either sold for agricultural use or transported for disposal to Waste Management's Amelia Landfill in Virginia. Waste Water Treatment Plant Fines (WWTP Fines) are removed from the Scrubber's WWTP as needed and transported to Waste Management's Amelia Landfill in Virginia for disposal.



Microbac Laboratories, Inc.

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COVER LETTER

Glenn St. Clair
Mirant Corporation-Chalkpoint
25100 Chalkpoint Road
Aquasco, MD 20608
RE: Chalk Point-Gypsum

November 10, 2010
Report No.: 10J1373

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 10/26/2010 16:14.

The enclosed results were obtained from and applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report has been reviewed and meet the applicable project and certification specific requirements, unless otherwise noted.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories, Inc.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

This Data Package contains the following:

- This Cover Page
- Sample Summary
- Test Results
- Notes and Definitions
- Cooler Receipt Log
- Chain of Custody

11/10/2010

Final report reviewed by:

Mark B. Horan For Melanie C. Duszynski/Project Manager

Report issue date

All samples received in proper condition and results conform to ISO 17025 standards unless otherwise noted.

If we have not met or exceeded your expectations, please contact the Director or Trevor Boyce, President at tboyce@microbac.com or Robert Morgan, Chief Operation Officer, at rmorgan@microbac.com.



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Baltimore Division

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Chalkpoint 25100 Chalkpoint Road Aguasco, MD 20608	Project: Chalk Point-Gypsum Project Number: Chalk Point-Gypsum Project Manager: Glenn St. Clair	Report: 10J1373 Reported: 11/10/2010 13:24
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SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
089-102610-GYP	10J1373-01	Solid	Grab	10/26/2010 11:30	10/26/2010 16:14

Microbac Laboratories, Inc., Baltimore Division

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Mark B. Horan For Melanie C. Duszynski, Project Manager

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Baltimore Division

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CERTIFICATE OF ANALYSISMirant Corporation-Chalkpoint
25100 Chalkpoint Road
Aquasco, MD 20608Project: Chalk Point-Gypsum
Project Number: Chalk Point-Gypsum
Project Manager: Glenn St. ClairReport: 10J1373
Reported: 11/10/2010 13:24**089-102610-GYP****10J1373-01 (Solid) Sampled: 10/26/2010 11:30; Type: Grab**

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
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Microbac Laboratories, Inc., Baltimore Division**Wet Chemistry**

% Solids	76.84	0.05	% by Weight	110210 1300	110310 0701	LCR	SM (20) 2540G	
Cyanide, Total	0.051	0.013	mg/kg dry	110110 0930	110210 0739	VAS	SW846 9010B/9014	D

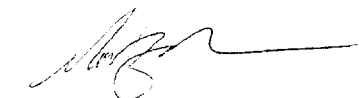
Mercury, Total by EPA 7000 Series Methods

Mercury	0.67	0.031	mg/kg dry	110510 1333	110510 1716	APS	SW846 7471A	D
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Metals, Total by EPA 6000/7000 Series Methods

Silver	ND	0.32	mg/kg dry	110510 0946	110510 1638	APS	EPA 6010B	
Aluminum	0.039	0.0016	% by Weight dry	110510 0946	110510 1638	APS	EPA 6010B	
Arsenic	ND	6.5	mg/kg dry	110510 0946	110510 1638	APS	EPA 6010B	
Barium	28	3.2	mg/kg dry	110510 0946	110510 1638	APS	EPA 6010B	
Beryllium	ND	1.3	mg/kg dry	110510 0946	110510 1638	APS	EPA 6010B	
Calcium	260000	320	mg/kg dry	110510 0946	110810 1337	APS	EPA 6010B	
Cadmium	ND	0.65	mg/kg dry	110510 0946	110510 1638	APS	EPA 6010B	
Cobalt	ND	3.2	mg/kg dry	110510 0946	110510 1638	APS	EPA 6010B	
Chromium	ND	3.2	mg/kg dry	110510 0946	110510 1638	APS	EPA 6010B	
Copper	ND	3.2	mg/kg dry	110510 0946	110510 1638	APS	EPA 6010B	
Iron	480	13	mg/kg dry	110510 0946	110510 1638	APS	EPA 6010B	
Potassium	250	32	mg/kg dry	110510 0946	110510 1638	APS	EPA 6010B	
Magnesium	ND	32	mg/kg dry	110510 0946	110510 1638	APS	EPA 6010B	
Manganese	ND	3.2	mg/kg dry	110510 0946	110510 1638	APS	EPA 6010B	
Sodium	ND	650	mg/kg dry	110510 0946	110510 1638	APS	EPA 6010B	
Nickel	ND	6.5	mg/kg dry	110510 0946	110510 1638	APS	EPA 6010B	
Lead	ND	6.5	mg/kg dry	110510 0946	110510 1638	APS	EPA 6010B	
Antimony	ND	26	mg/kg dry	110510 0946	110510 1638	APS	EPA 6010B	
Selenium	ND	6.5	mg/kg dry	110510 0946	110510 1638	APS	EPA 6010B	
Thallium	ND	13	mg/kg dry	110510 0946	110510 1638	APS	EPA 6010B	
Vanadium	ND	3.2	mg/kg dry	110510 0946	110510 1638	APS	EPA 6010B	
Zinc	ND	3.2	mg/kg dry	110510 0946	110510 1638	APS	EPA 6010B	B3

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Mark B. Horan For Melanie C. Duszynski, Project Manager

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Chalkpoint
25100 Chalkpoint Road
Aguasco, MD 20608

Project: Chalk Point-Gypsum
Project Number: Chalk Point-Gypsum
Project Manager: Glenn St. Clair

Report: 10J1373
Reported: 11/10/2010 13:24

089-102610-GYP

10J1373-01 (Solid) Sampled: 10/26/2010 11:30; Type: Grab

Analyte	Result	Reporting		Units	Prepared	Analyzed	Analyst	Method	Notes
		Limit							

Microbac Laboratories, Inc., Baltimore Division

TCLP Extraction by EPA 1311

Final pH	4.8		N/A	102810 1628	110110 1538	APS	EPA 1311
Initial pH	6.9		N/A	102810 1628	110110 1538	APS	EPA 1311
Rotation Time (Hrs)	18		N/A	102810 1628	110110 1538	APS	EPA 1311
TCLP Extraction Fluid	1.0		N/A	102810 1628	110110 1538	APS	EPA 1311
TCLP Filterable Solids	0.0		N/A	102810 1628	110110 1538	APS	EPA 1311

TCLP Metals by 6000/7000 Series Methods

Silver	ND	0.20	mg/L	110310 0917	110310 1908	APS	EPA 6010B	D
Arsenic	ND	0.20	mg/L	110310 0917	110310 1908	APS	EPA 6010B	D
Barium	ND	0.50	mg/L	110310 0917	110310 1908	APS	EPA 6010B	D
Cadmium	ND	0.20	mg/L	110310 0917	110310 1908	APS	EPA 6010B	D
Chromium	ND	0.20	mg/L	110310 0917	110310 1908	APS	EPA 6010B	D
Mercury	ND	0.0020	mg/L	110410 1204	110510 1238	APS	SW846 7471A	D
Lead	ND	0.20	mg/L	110310 0917	110310 1908	APS	EPA 6010B	D
Selenium	ND	0.20	mg/L	110310 0917	110310 1908	APS	EPA 6010B	D

Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND	0.13	mg/kg dry	102910 1000	102910 1359	RCS	EPA 8082	U
Aroclor 1221	ND	0.13	mg/kg dry	102910 1000	102910 1359	RCS	EPA 8082	U
Aroclor 1232	ND	0.13	mg/kg dry	102910 1000	102910 1359	RCS	EPA 8082	U
Aroclor 1242	ND	0.13	mg/kg dry	102910 1000	102910 1359	RCS	EPA 8082	U
Aroclor 1248	ND	0.13	mg/kg dry	102910 1000	102910 1359	RCS	EPA 8082	U
Aroclor 1254	ND	0.13	mg/kg dry	102910 1000	102910 1359	RCS	EPA 8082	U
Aroclor 1260	ND	0.13	mg/kg dry	102910 1000	102910 1359	RCS	EPA 8082	U
Surrogate: Tetrachloro-m-xylene	74.0%	20.9-112		102910 1000	102910 1359		EPA 8082	
Surrogate: Decachlorobiphenyl	136%	31.3-109		102910 1000	102910 1359		EPA 8082	SI

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Mark B. Horan For Melanie C. Duszynski, Project Manager



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CERTIFICATE OF ANALYSIS

Mirant Corporation-Chalkpoint
25100 Chalkpoint Road
Aquasco, MD 20608

Project: Chalk Point-Gypsum
Project Number: Chalk Point-Gypsum
Project Manager: Glenn St. Clair

Report: 10J1373
Reported: 11/10/2010 13:24

089-102610-GYP

10J1373-01 (Solid) Sampled: 10/26/2010 11:30; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
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Microbac Laboratories, Inc., Baltimore Division

TCLP Volatile Organic Compounds by EPA Method 1311/8260B

Benzene	ND	0.25	mg/L	110310 0000	110310 2043	TDH	EPA 1311/EPA 8260B	Q1, U, D
Carbon Tetrachloride	ND	0.25	mg/L	110310 0000	110310 2043	TDH	EPA 1311/EPA 8260B	Q1, U, D
Chlorobenzene	ND	0.25	mg/L	110310 0000	110310 2043	TDH	EPA 1311/EPA 8260B	Q1, U, D
Chloroform	ND	0.25	mg/L	110310 0000	110310 2043	TDH	EPA 1311/EPA 8260B	Q1, U, D
1,2-Dichloroethane	ND	0.25	mg/L	110310 0000	110310 2043	TDH	EPA 1311/EPA 8260B	Q1, U, D
1,1-Dichloroethene	ND	0.25	mg/L	110310 0000	110310 2043	TDH	EPA 1311/EPA 8260B	Q1, U, D
2-Butanone (MEK)	ND	1.2	mg/L	110310 0000	110310 2043	TDH	EPA 1311/EPA 8260B	Q1, U, D
Tetrachloroethene	ND	0.25	mg/L	110310 0000	110310 2043	TDH	EPA 1311/EPA 8260B	Q1, U, D
Trichloroethene	ND	0.25	mg/L	110310 0000	110310 2043	TDH	EPA 1311/EPA 8260B	Q1, U, D
Vinyl chloride	ND	0.25	mg/L	110310 0000	110310 2043	TDH	EPA 1311/EPA 8260B	Q1, U, D
Surrogate: Dibromofluoromethane		103%	80-120	110310 0000	110310 2043		EPA 1311 EPA 8260B	Q1
Surrogate: 1,2-Dichloroethane-d4		95.4%	80-120	110310 0000	110310 2043		EPA 1311 EPA 8260B	Q1
Surrogate: Toluene-d8		89.3%	75-120	110310 0000	110310 2043		EPA 1311 EPA 8260B	Q1
Surrogate: 4-Bromofluorobenzene		96.8%	60-149	110310 0000	110310 2043		EPA 1311 EPA 8260B	Q1

TCLP Pesticides by EPA Method 1311/8081A

gamma-BHC	ND	0.00050	mg/L	110310 1510	110410 1359	RCS	EPA 1311/8081A	U
Heptachlor	ND	0.00050	mg/L	110310 1510	110410 1359	RCS	EPA 1311/8081A	U
Heptachlor epoxide	ND	0.00050	mg/L	110310 1510	110410 1359	RCS	EPA 1311/8081A	U
Endrin	ND	0.0010	mg/L	110310 1510	110410 1359	RCS	EPA 1311/8081A	U
Methoxychlor	ND	0.0050	mg/L	110310 1510	110410 1359	RCS	EPA 1311/8081A	U
Toxaphene	ND	0.030	mg/L	110310 1510	110410 1359	RCS	EPA 1311/8081A	U
Technical Chlordane	ND	0.010	mg/L	110310 1510	110410 1359	RCS	EPA 1311/8081A	U
Surrogate: Tetrachloro-m-xylene		49.7%	30-109	110310 1510	110410 1359		EPA 1311 8081A	
Surrogate: Decachlorobiphenyl		33.2%	30-112	110310 1510	110410 1359		EPA 1311 8081A	

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Mirant Corporation-Chalkpoint
25100 Chalkpoint Road
Aquasco, MD 20608

Project: Chalk Point-Gypsum
Project Number: Chalk Point-Gypsum
Project Manager: Glenn St. Clair

Report: 10J1373
Reported: 11/10/2010 13:24

089-102610-GYP

10J1373-01 (Solid) Sampled: 10/26/2010 11:30; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
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Microbac Laboratories, Inc., Baltimore Division

TCLP Semivolatiles by EPA Method 1311/8270C

Total Cresols	ND	0.050	mg/L	110310 1400	110410 1247	RCS	EPA 1311/EPA 8270C	U
Pyridine	ND	0.050	mg/L	110310 1400	110410 1247	RCS	EPA 1311/EPA 8270C	U
1,4-Dichlorobenzene	ND	0.050	mg/L	110310 1400	110410 1247	RCS	EPA 1311/EPA 8270C	U
2-Methylphenol	ND	0.050	mg/L	110310 1400	110410 1247	RCS	EPA 1311/EPA 8270C	U
Hexachloroethane	ND	0.050	mg/L	110310 1400	110410 1247	RCS	EPA 1311/EPA 8270C	U
4-Methylphenol, 3-Methylphenol	ND	0.050	mg/L	110310 1400	110410 1247	RCS	EPA 1311/EPA 8270C	U
Nitrobenzene	ND	0.050	mg/L	110310 1400	110410 1247	RCS	EPA 1311/EPA 8270C	U
Hexachlorobutadiene	ND	0.050	mg/L	110310 1400	110410 1247	RCS	EPA 1311/EPA 8270C	U
2,4,6-Trichlorophenol	ND	0.050	mg/L	110310 1400	110410 1247	RCS	EPA 1311/EPA 8270C	U
2,4,5-Trichlorophenol	ND	0.050	mg/L	110310 1400	110410 1247	RCS	EPA 1311/EPA 8270C	U
2,4-Dinitrotoluene	ND	0.050	mg/L	110310 1400	110410 1247	RCS	EPA 1311/EPA 8270C	U
Hexachlorobenzene	ND	0.050	mg/L	110310 1400	110410 1247	RCS	EPA 1311/EPA 8270C	U
Pentachlorophenol	ND	0.050	mg/L	110310 1400	110410 1247	RCS	EPA 1311/EPA 8270C	U
Surrogate: 2-Fluorophenol		53.8%	0.974-78.2	110310 1400	110410 1247		EPA 1311/EPA 8270C	
Surrogate: Phenol-d5		35.0%	0-57.5	110310 1400	110410 1247		EPA 1311/EPA 8270C	
Surrogate: Nitrobenzene-d5		73.0%	15.3-131	110310 1400	110410 1247		EPA 1311/EPA 8270C	
Surrogate: 2-Fluorobiphenyl		90.7%	3.75-142	110310 1400	110410 1247		EPA 1311/EPA 8270C	
Surrogate: 2,4,6-Tribromophenol		106%	12.5-139	110310 1400	110410 1247		EPA 1311/EPA 8270C	
Surrogate: Terphenyl-d14		76.1%	16.6-136	110310 1400	110410 1247		EPA 1311/EPA 8270C	

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GC Semivolatiles

2,4,5-TP (Silvex)	ND	0.0010	mg/L	110410 1253	110910 1046	tm	SW-846 8151A
2,4-D	ND	0.0010	mg/L	110410 1253	110910 1046	tm	SW-846 8151A
Surrogate: DCAA		15.8%	10-110	110410 1253	110910 1046		SW-846 8151A

Microbac Laboratories, Inc., Baltimore Division

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Mark B. Horan For Melanie C. Duszynski, Project Manager



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Baltimore Division

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Phone: 410-633-1800

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Chalkpoint
25100 Chalkpoint Road
Aquasco, MD 20608

Project: Chalk Point-Gypsum
Project Number: Chalk Point-Gypsum
Project Manager: Glenn St. Clair

Report: 10J1373
Reported: 11/10/2010 13:24

Notes and Definitions

- V8 Target analyte detected in CCB at or above reporting limit. The analyte concentration was below the reporting limit.
- V7 Linearity Checks out of acceptance limits; result concentration was within calibration curve.
- U Sample concentration is less than the MDL.
- S1 Surrogate recovery was above laboratory acceptance limits. No negative impact on the data.
- R3 Sample Duplicate RPD was out of acceptance limits. The result concentration was within 5 times the reporting limit and the difference was less than the reporting limit.
- R1 Sample Duplicate RPD was out of acceptance limits.
- Q1 Sample received with head space.
- M1 The matrix spike recovery was out of acceptance limits. The post digestion spike recovery was acceptable.
- L3 The LCS recovery was below the laboratory acceptance limits. The reported result is estimated.
- D Sample Diluted
- B4 Target analyte detected in continuing calibration blank at or above reporting limit. Concentration found in the samples was 20 times the concentration found in the blank. No impact on data.
- B3 Target analyte detected in method blank at or above reporting limit. The analyte concentration was below the reporting limit.
- B2 Target analyte detected in method blank at or above reporting limit. Concentration found in the samples was 20 times the concentration found in the method blank.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Microbac Laboratories, Inc., Baltimore Division

Mark B. Horan For Melanie C. Duszynski, Project Manager

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Page 7 of 10

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Chalkpoint
25100 Chalkpoint Road
Aquasco, MD 20608

Project: Chalk Point-Gypsum
Project Number: Chalk Point-Gypsum
Project Manager: Glenn St. Clair

Report: 10J1373
Reported: 11/10/2010 13:24

Certifications

Below is a list of certifications maintained by Microbac Laboratories, Inc. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. A complete list of individual analytes pursuant to each certification below is available upon request.

- A2LA (Microbiology): 410.02
- A2LA (Environmental): 410.01
- A2LA (ELLAP): 410.01
- CPSC: 1115
- Maryland: 109
- Pennsylvania (NELAC): 68-00339
- USDA: S-53726
- Virginia: 00152

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Baltimore Division

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Cooler Receipt Log**Cooler ID:** Default Cooler**Cooler Temp:** 3.80 °C

Custody Seals Intact: Yes
Containers Intact: Yes
Received On Ice: Yes
Radiation Scan Acceptable: Yes
COC Present: Yes

COC/Containers Agree: Yes
Correct Preservation: Yes
Correct Number of Containers Received: Yes
Sufficient Sample Volume for Testing: Yes
Samples Received in Proper Condition: Yes

Comments:




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 Baltimore, MD 21224
 Tel: 410-633-1800
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Sample Submittal
 Chain of Custody Record

Work Order Number: _____

Page 1 of 1

Client Name <u>Mirant Corp. - Chalk Pt. Rd.</u> Address <u>25100 Chalk Pt. Rd.</u> City, State, Zip <u>Agassiz, MD 20608</u> Contact <u>Glenn St. Clair</u> Telephone # <u>301-843-4172</u>	Project <u>DBS Gypsum</u> Location <u>CP-FGD</u> PO # _____ MDE Drinking Water Certified Sampler? YES / NO _____ Certification # _____	Turnaround Time (Required) _____ <input type="checkbox"/> Standard <input type="checkbox"/> RUSH* (notify lab) (needed by) _____	QC and EDG Type (Required) <input type="checkbox"/> Level I (NAC) <input type="checkbox"/> Level II ** <input type="checkbox"/> Level III ** <input type="checkbox"/> Level IV ** Format: _____ Comments: _____
---	--	---	---

Sampled by (PRINT) <u>Myilby Davis</u> Send Report via <u>W e-mail (address)</u> <u>glenn.stclair@mirant.com</u> * Matrix Types: <u>Solid (S)</u> , Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify) _____	Sampler Signature _____ Telephone _____ Fax (fax #) <u>301-843-4475</u> Hard Copy <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Sampler Phone # <u>301-843-4170</u>	Barcode:  10J1373
---	--	-------------------------------------	--

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analysis										
								TC Cyanide	TCLP Volatiles	8082 PCBs	TAL Metals	TCLP Semi-Volatile	TCLP Pesticides	TCLP-Herbicides				
1026-16 GYP		<input checked="" type="checkbox"/>			12-26-10	1130	1	<input checked="" type="checkbox"/>										
089-092-12-058-1		<input checked="" type="checkbox"/>					1											
1		<input checked="" type="checkbox"/>					1											
2		<input checked="" type="checkbox"/>					1											
3		<input checked="" type="checkbox"/>					1											
4		<input checked="" type="checkbox"/>					1											
5		<input checked="" type="checkbox"/>					1											
6		<input checked="" type="checkbox"/>					1											
7		<input checked="" type="checkbox"/>					1											
8		<input checked="" type="checkbox"/>					1											

Possible Hazard Identification <input type="checkbox"/> Hazardous <input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Radioactive	Sample Disposition <input type="checkbox"/> Dispose as appropriate <input type="checkbox"/> Return <input type="checkbox"/> Archive	Received By (signature) _____ Date/Time _____	Printed Name/Affiliation _____
Relinquished By (signature) _____ Relinquished By (signature) _____ Relinquished By (signature) _____	Relinquished By (signature) _____ Relinquished By (signature) _____ Relinquished By (signature) _____	Received By (signature) _____ Received for Lab By (signature) _____ Date/Time _____	Printed Name/Affiliation _____ Printed Name/Affiliation _____ Printed Name/Affiliation _____

Cooler Receipt Form / Sample Acceptance & Noncompliance Form

Number of Coolers Received: 1
 Client: Miramir Chalk Paint
 Form Completed By: Derek R. Shepherd

Receipt Date / Time: 10/24/10 16:15
 Work Order # _____

Shipper: _____
 Custody Tape Intact: _____
 Containers Intact: _____
 Sample Received on Ice or refrigerated: _____

☒ Microbac ☐ Client ☐ UPS ☐ FedEx

YES / NO / NA

YES / NO

YES / NO

Temperature: _____ °C or

Infrared (IR) Temperature: 3.8 °C

☒ Negative or _____ mR/hr

YES / NO

YES / NO

YES / NO / Not Checked

YES / No (If No, contact client immediately)

YES / NO / NA

Water Soil Wipes Oil Filter Solid
 Sludge Food Other

Radiation Scan: _____
 Chain of Custody Present with shipment: _____
 Sample Bottle IDs agree with COC: _____
 Preservation requirements met: _____
 Correct Number of Containers / Sample Volume: _____
 Headspace in container: _____
 Type of Sample: _____

Container Type / Quantity:

A -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
B -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
C -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
D -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
E -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
H -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
K -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
L -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
M -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
W -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
V -	Unpreserved	HCl	HCl / Ascorbic Acid	HCl / NaTHIO	(Checked at time of Analysis)		
F -	Unpreserved	NaTHIO (Checked at time of Analysis)					
S -	Unpreserved	NaTHIO (Checked at time of Analysis)					
SN -	Unpreserved	NaTHIO	NaTHIO/EDTA (Checked at time of Analysis)				
J -	Unpreserved						
	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)

Describe preservation requirements not met:

All Acid preserved <2 pH

NaOH preserved >12 pH

All others >2 and <10 (usually 4-8)

Sample ID: _____ H2SO4 HNO3 NaOH _____ mls added

Sample ID: _____ H2SO4 HNO3 NaOH _____ mls added

Sample ID: _____ H2SO4 HNO3 NaOH _____ mls added

Sample ID: _____ H2SO4 HNO3 NaOH _____ mls added

H2SO4 - Sulfuric Acid, HNO3 - Nitric Acid, NaOH - Sodium Hydroxide, ASC - Ascorbic Acid, NaTHIO - Sodium Thiosulfate

Describe Anomalies: _____

Contact information / Summary of Actions:

Date / Time: _____ Contact: _____ Contact By: _____

Comments: _____



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COVER LETTER

Glenn St. Clair
Mirant Corporation-Chalk Point
25100 Chalk Point Road
Aquasco, MD 20608
RE: Chalk Point FGD-WW

December 02, 2010
Report No.: 10K0565

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 11/09/2010 14:09.

The enclosed results were obtained from and applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report has been reviewed and meet the applicable project and certification specific requirements, unless otherwise noted.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories, Inc.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

This Data Package contains the following:

- This Cover Page
- Sample Summary
- Test Results
- Notes and Definitions
- Cooler Receipt Log
- Chain of Custody

12/2/2010

Final report reviewed by:

Mark B. Horan/Laboratory Director

Report issue date

All samples received in proper condition and results conform to ISO 17025 standards unless otherwise noted.

If we have not met or exceeded your expectations, please contact the Director or Trevor Boyce, President at tboyce@microbac.com or Robert Morgan, Chief Operation Officer, at rmorgan@microbac.com.



Microbac Laboratories, Inc.

Baltimore Division

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Chalk Point 25100 Chalk Point Road Aquasco, MD 20608	Project: Chalk Point FGD-WW Project Number: Chalk Point FGD-WW Project Manager: Glenn St. Clair	Report: 10K0565 Reported: 12/02/2010 14:59
---	---	---

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
089-110910-WWTP-FINES-1	10K0565-01	Solid	Grab	11/09/2010 06:50	11/09/2010 14:09

Microbac Laboratories, Inc., Baltimore Division

Mark B. Horan, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Microbac Laboratories, Inc.

Baltimore Division

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Chalk Point
25100 Chalk Point Road
Aquasco, MD 20608

Project: Chalk Point FGD-WW
Project Number: Chalk Point FGD-WW
Project Manager: Glenn St. Clair

Report: 10K0565
Reported: 12/02/2010 14:59

089-110910-WWTP-FINES-1

10K0565-01 (Solid) Sampled: 11/09/2010 06:50; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
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Microbac Laboratories, Inc., Baltimore Division

Wet Chemistry

% Solids	61.21	0.05	% by Weight	111210 1500	111510 1244	LCR	SM (20) 2540G	
Cyanide, Total	ND	0.017	mg/kg dry	111010 0830	111010 1247	VAS	SW846 9010B/9014	D

Mercury, Total by EPA 7000 Series Methods

Mercury	67	2.0	mg/kg dry	111810 1226	112210 1543	APS	SW846 7471A	D
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Metals, Total by EPA 6000/7000 Series Methods

Silver	ND	3.5	mg/kg dry	112310 0914	113010 1208	APS	EPA 6010B	
Aluminum	21000	18	mg/kg dry	112310 0914	113010 1208	APS	EPA 6010B	
Arsenic	ND	71	mg/kg dry	112310 0914	120110 1236	APS	EPA 6010B	
Barium	1300	3.5	mg/kg dry	112310 0914	113010 1208	APS	EPA 6010B	
Beryllium	ND	1.4	mg/kg dry	112310 0914	113010 1208	APS	EPA 6010B	
Calcium	190000	350	mg/kg dry	112310 0914	120110 1236	APS	EPA 6010B	
Cadmium	2.1	0.71	mg/kg dry	112310 0914	113010 1208	APS	EPA 6010B	
Cobalt	7.5	3.5	mg/kg dry	112310 0914	113010 1208	APS	EPA 6010B	
Chromium	57	3.5	mg/kg dry	112310 0914	113010 1208	APS	EPA 6010B	
Copper	45	3.5	mg/kg dry	112310 0914	113010 1208	APS	EPA 6010B	
Iron	28000	14	mg/kg dry	112310 0914	113010 1208	APS	EPA 6010B	
Potassium	12000	35	mg/kg dry	112310 0914	113010 1208	APS	EPA 6010B	B2
Magnesium	31000	35	mg/kg dry	112310 0914	113010 1208	APS	EPA 6010B	
Manganese	2500	3.5	mg/kg dry	112310 0914	113010 1208	APS	EPA 6010B	
Sodium	1800	710	mg/kg dry	112310 0914	113010 1208	APS	EPA 6010B	
Nickel	110	7.1	mg/kg dry	112310 0914	113010 1208	APS	EPA 6010B	
Lead	8.8	7.1	mg/kg dry	112310 0914	113010 1208	APS	EPA 6010B	
Antimony	ND	14	mg/kg dry	112310 0914	113010 1208	APS	EPA 6010B	
Selenium	340	280	mg/kg dry	112310 0914	120110 1236	APS	EPA 6010B	
Thallium	ND	14	mg/kg dry	112310 0914	113010 1208	APS	EPA 6010B	
Vanadium	24	3.5	mg/kg dry	112310 0914	113010 1208	APS	EPA 6010B	

Microbac Laboratories, Inc., Baltimore Division

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Mark B. Horan, Laboratory Director

Page 3 of 11

CERTIFICATE OF ANALYSIS

 Mirant Corporation-Chalk Point
 25100 Chalk Point Road
 Aquasco, MD 20608

 Project: Chalk Point FGD-WW
 Project Number: Chalk Point FGD-WW
 Project Manager: Glenn St. Clair

 Report: 10K0565
 Reported: 12/02/2010 14:59

089-110910-WWTP-FINES-1
10K0565-01 (Solid) Sampled: 11/09/2010 06:50; Type: Grab

Analyte	Result	Reporting		Units	Prepared	Analyzed	Analyst	Method	Notes
		Limit							

Microbac Laboratories, Inc., Baltimore Division
Metals, Total by EPA 6000/7000 Series Methods

Zinc	93	3.5	mg/kg dry	112310 0914	113010 1208	APS	EPA 6010B	
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TCLP Extraction by EPA 1311

Initial pH	9.0		N/A	110910 1851	111010 1540	EDP	EPA 1311	
TCLP Extraction Fluid	1.0		N/A	110910 1851	111010 1540	EDP	EPA 1311	
Rotation Time (Hrs)	17		N/A	110910 1851	111010 1540	EDP	EPA 1311	
TCLP Filterable Solids	0.0		N/A	110910 1851	111010 1540	EDP	EPA 1311	
Final pH	7.2		N/A	110910 1851	111010 1540	EDP	EPA 1311	

TCLP Metals by 6000/7000 Series Methods

Silver	ND	0.20	mg/L	111110 0752	111110 1554	APS	EPA 6010B	D
Arsenic	ND	0.20	mg/L	111110 0752	111110 1554	APS	EPA 6010B	D
Barium	ND	0.50	mg/L	111110 0752	111110 1554	APS	EPA 6010B	D
Cadmium	ND	0.20	mg/L	111110 0752	111110 1554	APS	EPA 6010B	D
Chromium	ND	0.20	mg/L	111110 0752	111110 1554	APS	EPA 6010B	D
Mercury	ND	0.0020	mg/L	111110 1430	111210 1427	APS	SW846 7471A	D
Lead	ND	0.20	mg/L	111110 0752	111110 1554	APS	EPA 6010B	D
Selenium	ND	0.20	mg/L	111110 0752	111110 1554	APS	EPA 6010B	D

Polychlorinated Biphenyls by EPA Method 8082

Aroclor 1016	ND	0.16	mg/kg dry	111510 1430	111910 2245	RCS	EPA 8082	U
Aroclor 1221	ND	0.16	mg/kg dry	111510 1430	111910 2245	RCS	EPA 8082	U
Aroclor 1232	ND	0.16	mg/kg dry	111510 1430	111910 2245	RCS	EPA 8082	U
Aroclor 1242	ND	0.16	mg/kg dry	111510 1430	111910 2245	RCS	EPA 8082	U
Aroclor 1248	ND	0.16	mg/kg dry	111510 1430	111910 2245	RCS	EPA 8082	U
Aroclor 1254	ND	0.16	mg/kg dry	111510 1430	111910 2245	RCS	EPA 8082	U
Aroclor 1260	ND	0.16	mg/kg dry	111510 1430	111910 2245	RCS	EPA 8082	U

Surrogate: Tetrachloro-m-xylene

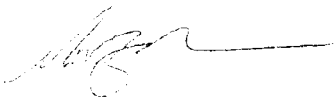
61.0% 20.9-112 111510 1430 111910 2245 EPA 8082

Surrogate: Decachlorobiphenyl

95.0% 31.3-109 111510 1430 111910 2245 EPA 8082

Microbac Laboratories, Inc., Baltimore Division

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Mark B. Horan, Laboratory Director

**Microbac Laboratories, Inc.**

Baltimore Division

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Chalk Point
25100 Chalk Point Road
Aquasco, MD 20608

Project: Chalk Point FGD-WW
Project Number: Chalk Point FGD-WW
Project Manager: Glenn St. Clair

Report: 10K0565
Reported: 12/02/2010 14:59

089-110910-WWTP-FINES-1**10K0565-01 (Solid) Sampled: 11/09/2010 06:50; Type: Grab**

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
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Microbac Laboratories, Inc., Baltimore Division**TCLP Volatile Organic Compounds by EPA Method 1311/8260B**

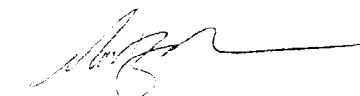
Benzene	ND	0.25	mg/L	111810 0000	111810 1344	TDH	EPA 1311/EPA 8260B	D
Carbon Tetrachloride	ND	0.25	mg/L	111810 0000	111810 1344	TDH	EPA 1311/EPA 8260B	D
Chlorobenzene	ND	0.25	mg/L	111810 0000	111810 1344	TDH	EPA 1311/EPA 8260B	D
Chloroform	ND	0.25	mg/L	111810 0000	111810 1344	TDH	EPA 1311/EPA 8260B	D
1,2-Dichloroethane	ND	0.25	mg/L	111810 0000	111810 1344	TDH	EPA 1311/EPA 8260B	D
1,1-Dichloroethene	ND	0.25	mg/L	111810 0000	111810 1344	TDH	EPA 1311/EPA 8260B	D
2-Butanone (MEK)	ND	1.2	mg/L	111810 0000	111810 1344	TDH	EPA 1311/EPA 8260B	D, E
Tetrachloroethene	ND	0.25	mg/L	111810 0000	111810 1344	TDH	EPA 1311/EPA 8260B	D
Trichloroethene	ND	0.25	mg/L	111810 0000	111810 1344	TDH	EPA 1311/EPA 8260B	D
Vinyl chloride	ND	0.25	mg/L	111810 0000	111810 1344	TDH	EPA 1311/EPA 8260B	D
Surrogate: Dibromofluoromethane	102%	80-120		111810 0000	111810 1344		EPA 1311 EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4	97.0%	80-120		111810 0000	111810 1344		EPA 1311 EPA 8260B	
Surrogate: Toluene-d8	97.9%	75-120		111810 0000	111810 1344		EPA 1311 EPA 8260B	
Surrogate: 4-Bromofluorobenzene	98.6%	60-149		111810 0000	111810 1344		EPA 1311 EPA 8260B	

TCLP Pesticides by EPA Method 1311/8081A

gamma-BHC	ND	0.00050	mg/L	112310 0905	112910 1514	RCS	EPA 1311/8081A	U
Heptachlor	ND	0.00050	mg/L	112310 0905	112910 1514	RCS	EPA 1311/8081A	U
Heptachlor epoxide	ND	0.00050	mg/L	112310 0905	112910 1514	RCS	EPA 1311/8081A	U
Endrin	ND	0.0010	mg/L	112310 0905	112910 1514	RCS	EPA 1311/8081A	U
Methoxychlor	ND	0.0050	mg/L	112310 0905	112910 1514	RCS	EPA 1311/8081A	U
Toxaphene	ND	0.030	mg/L	112310 0905	112910 1514	RCS	EPA 1311/8081A	U
Technical Chlordane	ND	0.010	mg/L	112310 0905	112910 1514	RCS	EPA 1311/8081A	U
Surrogate: Tetrachloro-m-xylene	48.2%	30-109		112310 0905	112910 1514		EPA 1311/8081A	
Surrogate: Decachlorobiphenyl	68.5%	30-112		112310 0905	112910 1514		EPA 1311/8081A	

Microbac Laboratories, Inc., Baltimore Division

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Mark B. Horan, Laboratory Director



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Baltimore Division

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CERTIFICATE OF ANALYSIS

Mirant Corporation-Chalk Point
25100 Chalk Point Road
Aquasco, MD 20608

Project: Chalk Point FGD-WW
Project Number: Chalk Point FGD-WW
Project Manager: Glenn St. Clair

Report: 10K0565
Reported: 12/02/2010 14:59

089-110910-WWTP-FINES-1

10K0565-01 (Solid) Sampled: 11/09/2010 06:50; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
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Microbac Laboratories, Inc., Baltimore Division

TCLP Semivolatiles by EPA Method 1311/8270C

Total Cresols	ND	0.20	mg/L	111010 1606	111010 2221	tdh	EPA 1311/EPA 8270C	U
Pyridine	ND	0.50	mg/L	111010 1606	111010 2221	tdh	EPA 1311/EPA 8270C	U
1,4-Dichlorobenzene	ND	0.10	mg/L	111010 1606	111010 2221	tdh	EPA 1311/EPA 8270C	U
2-Methylphenol	ND	0.10	mg/L	111010 1606	111010 2221	tdh	EPA 1311/EPA 8270C	U
Hexachloroethane	ND	0.10	mg/L	111010 1606	111010 2221	tdh	EPA 1311/EPA 8270C	U
4-Methylphenol, 3-Methylphenol	ND	0.10	mg/L	111010 1606	111010 2221	tdh	EPA 1311/EPA 8270C	U
Nitrobenzene	ND	0.10	mg/L	111010 1606	111010 2221	tdh	EPA 1311/EPA 8270C	U
Hexachlorobutadiene	ND	0.10	mg/L	111010 1606	111010 2221	tdh	EPA 1311/EPA 8270C	U
2,4,6-Trichlorophenol	ND	0.10	mg/L	111010 1606	111010 2221	tdh	EPA 1311/EPA 8270C	U
2,4,5-Trichlorophenol	ND	0.10	mg/L	111010 1606	111010 2221	tdh	EPA 1311/EPA 8270C	U
2,4-Dinitrotoluene	ND	0.10	mg/L	111010 1606	111010 2221	tdh	EPA 1311/EPA 8270C	U
Hexachlorobenzene	ND	0.10	mg/L	111010 1606	111010 2221	tdh	EPA 1311/EPA 8270C	U
Pentachlorophenol	ND	0.50	mg/L	111010 1606	111010 2221	tdh	EPA 1311/EPA 8270C	U
Surrogate: 2-Fluorophenol	42.9%	0.974-78.2		111010 1606	111010 2221		EPA 1311/EPA 8270C	
Surrogate: Phenol-d5	25.1%	0-57.5		111010 1606	111010 2221		EPA 1311/EPA 8270C	
Surrogate: Nitrobenzene-d5	55.5%	15.3-131		111010 1606	111010 2221		EPA 1311/EPA 8270C	
Surrogate: 2-Fluorobiphenyl	72.3%	3.75-142		111010 1606	111010 2221		EPA 1311/EPA 8270C	
Surrogate: 2,4,6-Tribromophenol	96.9%	12.5-139		111010 1606	111010 2221		EPA 1311/EPA 8270C	
Surrogate: Terphenyl-d14	64.2%	16.6-136		111010 1606	111010 2221		EPA 1311/EPA 8270C	

Microbac Laboratories, Inc. - Ohio Valley

TCLP HERBICIDES

2,4-D	ND	20.0	ug/L	111210 1330	111610 0132	ECL	SW8151A
2,4,5-TP (Silvex)	ND	2.00	ug/L	111210 1330	111610 0132	ECL	SW8151A
Surrogate: 2,4-Dichlorophenylacetic acid	83.5%	20-144		111210 1330	111610 0132		SW8151A

Microbac Laboratories, Inc., Baltimore Division

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Mark B. Horan, Laboratory Director



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CERTIFICATE OF ANALYSIS

Mirant Corporation-Chalk Point
25100 Chalk Point Road
Aquasco, MD 20608

Project: Chalk Point FGD-WW
Project Number: Chalk Point FGD-WW
Project Manager: Glenn St. Clair

Report: 10K0565
Reported: 12/02/2010 14:59

Notes and Definitions

- V8 Target analyte detected in CCB at or above reporting limit. The analyte concentration was below the reporting limit.
- V7 Linearity Checks out of acceptance limits; result concentration was within calibration curve.
- V4 ICV recovery was above acceptance limits. The concentration was below the reporting limit.
- U Sample concentration is less than the MDL.
- S1 Surrogate recovery was above laboratory acceptance limits. No negative impact on the data.
- R3 Sample Duplicate RPD was out of acceptance limits. The result concentration was within 5 times the reporting limit and the difference was less than the reporting limit.
- M1 The matrix spike recovery was out of acceptance limits. The post digestion spike recovery was acceptable.
- L2 The LCS recovery was above the laboratory acceptance limits. The target analyte concentration was below the reporting limit. No negative impact on the data.
- E Concentration estimated due to target analyte exceeding linear range.
- D Sample Diluted
- B4 Target analyte detected in continuing calibration blank at or above reporting limit. Concentration found in the samples was 20 times the concentration found in the blank. No impact on data.
- B3 Target analyte detected in method blank at or above reporting limit. The analyte concentration was below the reporting limit.
- B2 Target analyte detected in method blank at or above reporting limit. Concentration found in the samples was 20 times the concentration found in the method blank.
- B1 Target analyte detected in method blank at or above reporting limit.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Microbac Laboratories, Inc., Baltimore Division

Mark B. Horan, Laboratory Director

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Certifications

Below is a list of certifications maintained by Microbac Laboratories, Inc. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. A complete list of individual analytes pursuant to each certification below is available upon request.

- A2LA (Microbiology): 410.02
- A2LA (Environmental): 410.01
- A2LA (ELLAP): 410.01
- CPSC: 1115
- Maryland: 109
- Pennsylvania (NELAC): 68-00339
- USDA: S-53726
- Virginia: 00152



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Baltimore Division
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Cooler Receipt Log

Cooler ID: Default Cooler

Cooler Temp: 2.30 °C

Custody Seals Intact: Yes
Containers Intact: Yes
Received On Ice: Yes
Radiation Scan Acceptable: Yes
COC Present: Yes

COC/Containers Agree: Yes
Correct Preservation: Yes
Correct Number of Containers Received: Yes
Sufficient Sample Volume for Testing: Yes
Samples Received in Proper Condition: Yes

Comments:

Cooler ID: red

Cooler Temp: 22.70 °C

Custody Seals Intact: No
Containers Intact: No
Received On Ice: No
Radiation Scan Acceptable: No
COC Present: No

COC/Containers Agree: No
Correct Preservation: No
Correct Number of Containers Received: No
Sufficient Sample Volume for Testing: No
Samples Received in Proper Condition: No

Comments:

Baltimore Division Chain of Custody Record

Work Order Number:

Baltimore, MD 21224
Tel: 410-633-1800
Fax: 410-633-6553
www.microbac.com

Page 1 of 1

Client Name: <u>Mirant Corp-Chalk Pt. Gen. Sta.</u>		Project: <u>WUTP-FINES</u>		NPDES YES/NO		Background Time (Required)		QC and EDO Type (Required)	
Address: <u>35100 Chalk Pt. Rd</u>		Location: <u>CP-FGD</u>		PO #		Standard		Level I (NAC)	
City, State, Zip: <u>Agasson, MD 20608</u>		MDE Drinking Water Certified Sampler? YES / NO		Certification #		WUSH* (notify lab)		Level II**	
Contact: <u>Glenn St. Clair</u>		Sampler Signature: <u>[Signature]</u>		Sampler Phone #		(needed by)		Level III**	
Telephone #		Sampler Signature: <u>[Signature]</u>		Sampler Phone #				Level IV**	
Sampled by (PRINT): <u>MR Davis</u>		Fax (fax #): <u>301 843 4475</u>		Telephone				Hard Copy	
Send Report via		Email		Telephone				YES	
* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)									

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analysis							
110910								TCL Cyanide							
089-092-H0-WUTP-FINES-1	✓				11-09-10	0650	1	TCL Volatiles	✓						
1	✓						1	8082 PCBs	✓						
2	✓						1	TAL Metals	✓						
3	✓						1	TCLP Metals	✓						
4	✓						1	TCLP Semi-Volatile	✓						
5	✓						1	TCLP Pesticides	✓						
6	✓						1	TCLP Herbicides	✓						
7	✓						1								
8	✓						1								



10K0565

Possible Hazard Identification	<input type="checkbox"/> Hazardous	<input type="checkbox"/> Non-Hazardous	<input type="checkbox"/> Radioactive	Sample Disposition		<input type="checkbox"/> Dispose as appropriate	<input type="checkbox"/> Return	<input type="checkbox"/> Archive
Number of Containers:	Relinquished By (signature)	Printed Name/Affiliation	Date/Time	Received By (signature)	Printed Name/Affiliation			
Order Number:	Relinquished By (signature)	Printed Name/Affiliation	Date/Time	Received By (signature)	Printed Name/Affiliation			
Sample upon receipt (C):	Relinquished By (signature)	Printed Name/Affiliation	Date/Time	Received for Lab By (signature)	Printed Name/Affiliation			
Sample Refrigerated on Ice or Refrigerated from Client: Yes / No	Relinquished By (signature)	Printed Name/Affiliation	Date/Time					

Cooler Receipt Form / Sample Acceptance & Noncompliance Form

Number of Coolers Received: 1
 Client: MICROBAC
 Form Completed By: _____

Receipt Date / Time: 11-09-16 1409
 Work Order #: _____

Shipper: _____
 Custody Tape Intact: _____
 Containers Intact: _____
 Sample Received on Ice or refrigerated: _____

☒ Microbac ☐ Client ☐ UPS ☐ FedEx

☒ YES / ☐ NO / ☐ NA

☒ YES / ☐ NO

☒ YES ☒ NO 23 / 22.7 °C

Temperature: _____ °C or

Infrared (IR) Temperature: _____ °C

☒ Negative or _____ mR/hr

☒ YES / ☐ NO

☒ YES / ☐ NO

☒ YES / ☐ NO / ☒ Not Checked

☒ YES / ☐ No (If No, contact client immediately)

☒ YES / ☐ NO / ☒ NA

☒ Water ☐ Soil ☐ Wipes ☐ Oil ☐ Filter ☒ Solid

☐ Sludge ☐ Food ☐ Other

Container Type / Quantity:

A- _____	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
B- _____	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
C- _____	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
D- _____	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
E- _____	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
H- _____	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
K- _____	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
L- _____	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
M- _____	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
W- _____	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
V- _____	Unpreserved	HCl	HCl / Ascorbic Acid	HCl / NaTHIO	(Checked at time of Analysis)		
F- _____	Unpreserved	NaTHIO (Checked at time of Analysis)					
S- _____	Unpreserved	NaTHIO (Checked at time of Analysis)					
SN- _____	Unpreserved	NaTHIO	NaTHIO/EDTA (Checked at time of Analysis)				
J- _____	Unpreserved						
_____	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
_____	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)
_____	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	Other(_____)

Describe preservation requirements not met:

All Acid preserved <2 pH NaOH preserved >12 pH All others >2 and <10 (usually 4-8)

Sample ID: _____ H2SO4 HNO3 NaOH _____ mls added

Sample ID: _____ H2SO4 HNO3 NaOH _____ mls added

Sample ID: _____ H2SO4 HNO3 NaOH _____ mls added

Sample ID: _____ H2SO4 HNO3 NaOH _____ mls added

H2SO4 - Sulfuric Acid, HNO3 - Nitric Acid, NaOH - Sodium Hydroxide, ASC - Ascorbic Acid, NaTHIO - Sodium Thiosulfate

Describe Anomalies:

Contact information / Summary of Actions:

Date / Time: _____ Contact: _____ Contact By: _____

Comments: _____

